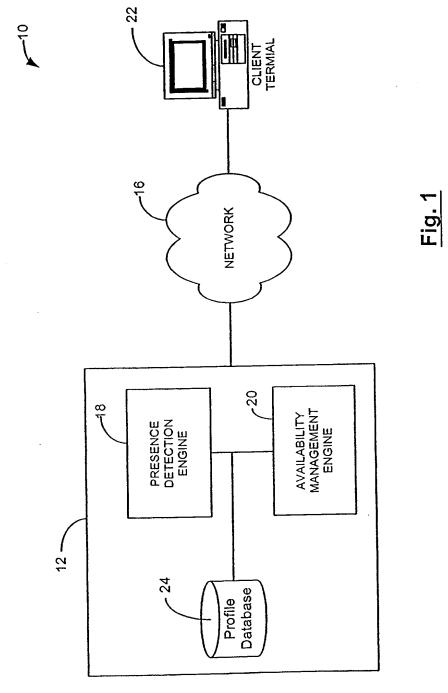Patrick R. Jewik, Reg. No. 40,456, (415) 576-0200
Titled: System and Method for Filtering Unavailable
Devices in a Presence and Availability Management
System
App. No. 10/068,759 Filed: February 5, 2002
Dckt. No. 022395-770400US
Replacement Sheet 1 of 9

CLIENT
TERMIAL

22

10

NETWORK

16

PRESENCE
DETECTION
ENGINE

18

AVAILABILITY
MANAGEMENT
ENGINE

20

Profile
Database

24

12

Fig. 1

Patrick R. Jewik, Reg. No. 40,456, (415) 576-0200
Titled: System and Method for Filtering Unavailable
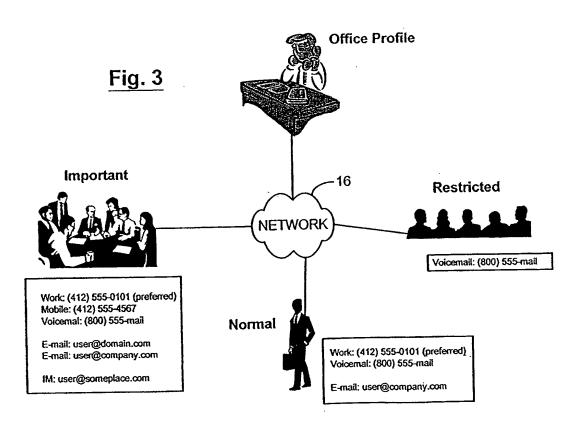Devices in a Presence and Availability Management
System
App. No. 10/068,759 Filed: February 5, 2002
Dckt. No. 022395-770400US
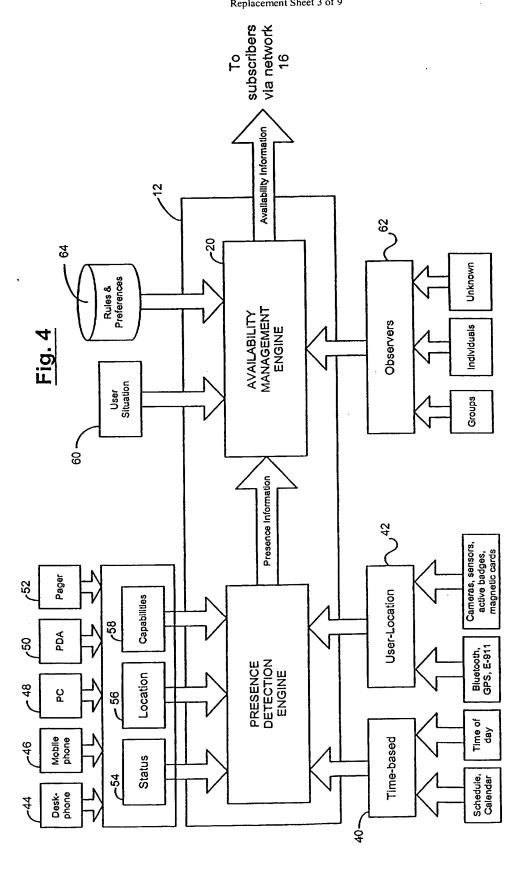Replacement Sheet 2 of 9

OFFICE PROFILE

Communication Media	Address	Important	Normal	Restricted	Blocked
Home telephone	(412) 555-1234	No	No	No	No
Office telephone	(412) 555-0101	Yes (preferred)	Yes	No	No
Mobile telephone	(412) 555-4567	Yes	No	No	No
Voicemail	(800) 555-mail	Yes	Yes (preferred)	Yes	No
Personal e-mail	user@domain.com	Yes	No	No	No
Work e-mail	user@company.com	Yes (preferred)	Yes (preferred)	No	No
Instant messaging	user@someplace.com	Yes	No	No	No

Fig. 2

Fig. 3

Office Profile

Important

Restricted

16

NETWORK

Voicemail: (800) 555-mail

Normal

Work: (412) 555-0101 (preferred)
Mobile: (412) 555-4567
Voicemal: (800) 555-mail

E-mail: user@domain.com
E-mail: user@company.com

IM: user@someplace.com

Work: (412) 555-0101 (preferred)
Voicemal: (800) 555-mail

E-mail: user@company.com

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Fig. 4

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Fig. 5

```
┌─────────────────────────┐
│    Ascertain presence   │ ⟿ 88
│      information        │
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│   Retrieve current profile │ ⟿ 90
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│ Retrieve list of subscribers for │ ⟿ 92
│      each access level  │
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│   Determine availability │ ⟿ 94
│       information        │
│   (based on access level) │
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│  Distribute availability to │ ⟿ 98
│        subscribers       │
└─────────────────────────┘
```

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To
subscribers
via network
16

12

20

AVAILABILITY
MANAGEMENT
ENGINE

ADAPTIVE
FEEDBACK
MODULE

100

PRESENCE
DETECTION
ENGINE

18

Fig. 6

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Fig. 7

RETRIEVE PROFILE   ⟋ 102

For each subscriber,
retrieve access level   ⟋ 104

Determine availability
information
(based on access level) ⟋ 106

107

Ascertain presence
information

Filter P&A Information   ⟋ 108

109

Distribute P&A Information to
subscribers
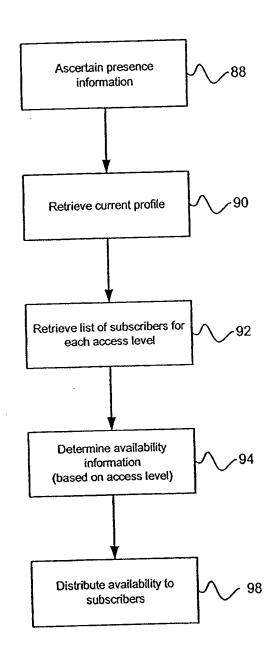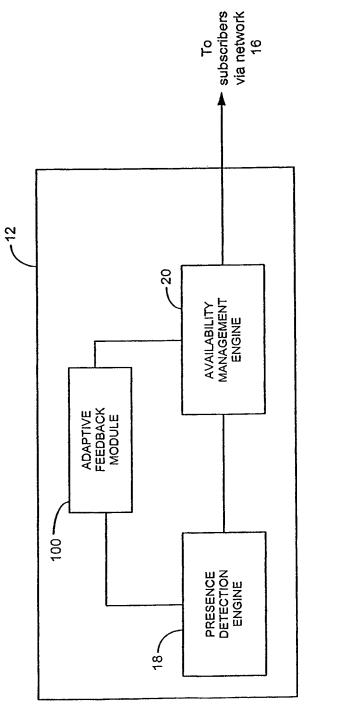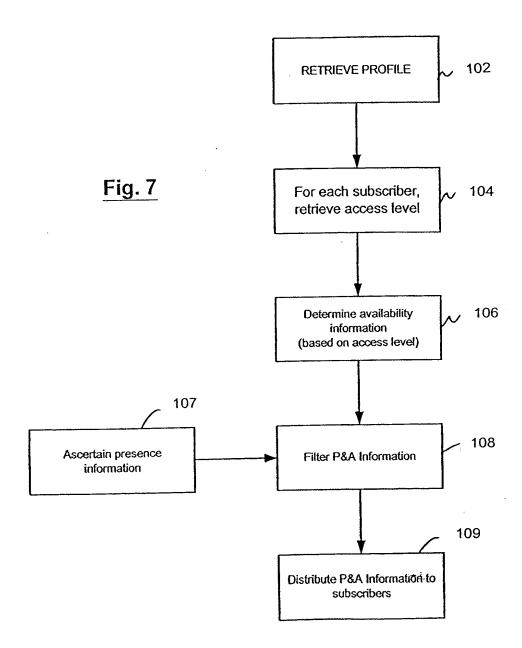
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Contacts Program

File View Contacts Help

Contacts

Business
IM Alex
IM Jonathan
IM Kit

Friends
IM Corby
IM Cyndi
IM Tom
IM Pete

School

Misc
IM Roberto
IM Cecelia

Contact Properties

Contact:
IM Jonathan

Addresses:

Voice
Work: (412) 555-1234
Work: (412) 555-2345

Voice Mail
Work vmail: (412) 555-1111
Cell vmail: (412) 555-2222
Home vmail: (412) 555-3333

Instant Message
IM Jonathan@abcco.com
IM Jonathan@pdqco.com

E-mail
Primary work E-mail: jonathan@abc.com
Personal - web based E-mail: jonathan@pdq.com
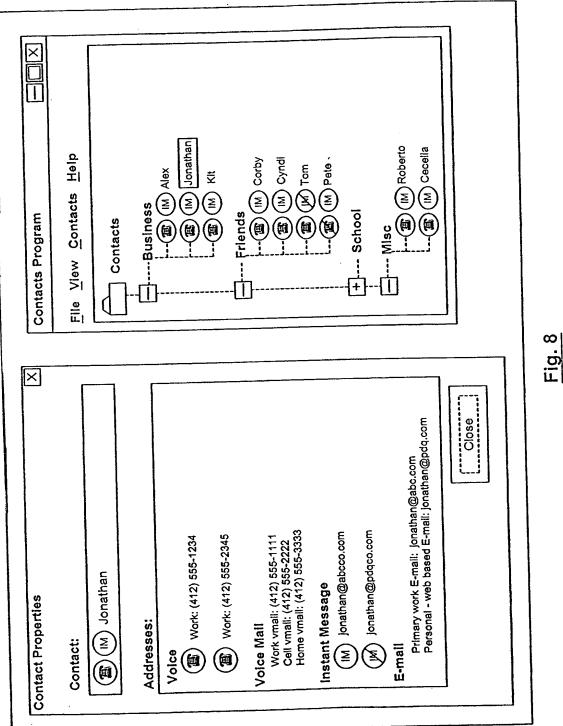
Close

Fig. 8

Patrick R. Jewik, Reg. No. 40,456, (415) 575-0200
Titled: System and Method for Filtering Unavailable
Devices in a Presence and Availability Management
System
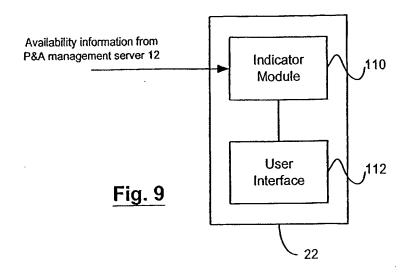App. No. 10/068,759 Filed: February 5, 2002
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Replacement Sheet 8 of 9

Availability information from
P&A management server 12 →

```
┌──────────────────────┐
│   ┌──────────────┐    │
│   │  Indicator   │    │ ～110
│   │   Module     │    │
│   └──────────────┘    │
│          │            │
│   ┌──────────────┐    │
│   │    User      │    │ ～112
│   │  Interface   │    │
│   └──────────────┘    │
└──────────────────────┘
            │
            └─ 22
```

Fig. 9

Fig. 10

```
┌─────────────────────┐
│ Receive availability │ ～120
│ information for each │
│ individual (1 to n)  │
└─────────────────────┘
          │
          ▼
┌─────────────────────┐
│   Generate single   │ ～122
│ indicator for each  │
│     individual      │
└─────────────────────┘
          │
          ▼
124 ～ ┌──────────┐ ◄──────────────── No ─────────────
       │ Set k = 1│
       └──────────┘
          │
          ▼
126 ～   ◇ For individual k,          ┌─────────────────────┐ 130
        receive at least one  ─ Yes ─►│ Display individual as│
        address to send each         │ available for that   │
        content type?                │    content type      │
          │                          └─────────────────────┘
          No                                    │
          ▼                                      │
128 ～ ┌─────────────────────┐   132 ～ ┌──────────┐   134 ～ ◇        ┌─────┐
       │ Display individual as│ ───────►│ Set k=k+1│ ─────► k = n ? ─Yes─►│ End │
       │ not available for that│        └──────────┘                    └─────┘
       │    content type       │
       └─────────────────────┘
```
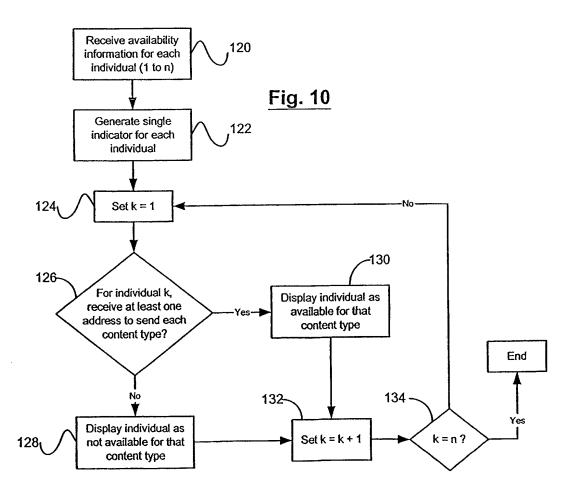
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Fig. 11